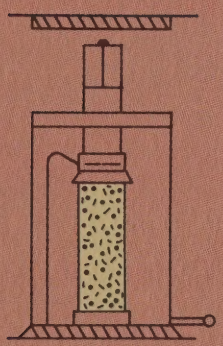
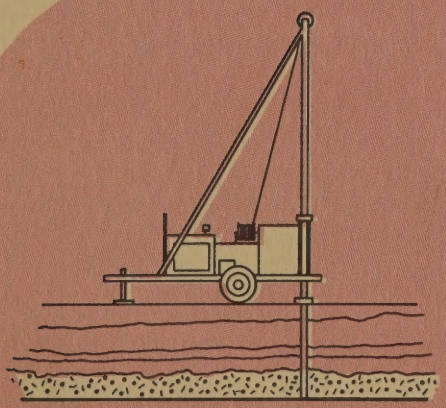
STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

RAYMOND T. SCHULER, COMMISSIONER

SOIL MECHANICS
BUREAU





CONTRACT FILD 73-13

TEST WELL REPORT
INTERSTATE ROUTE 502
MOFFITT RD. TO STRATTON RD.
NORTHBOUND & SOUTHBOUND
REST AREAS
CLINTON COUNTY

April 1974

SM 238b (1/73)

MEMORANDUM
DEPARTMENT OF TRANSPORTATION

DATE April 30, 1974

SUBJECT TEST WELL REPORT, I-87 - MOFFITT ROAD TO STRATTON ROAD
REST AREAS, FILD 73-13
CLINTON COUNTY

FROM Lyndon H. Moore, Director, Soil Mechanics Bureau, Room 102, Bldg. 7
By: Wesley P. Moody WPM

TO C. J. Lyman, Regional Director of Transportation, Region 7 ←

cc M. D. Graham, Facilities Design Subdivision, Room 405, Bldg. 5
Attention: J. J. Ryan
J. Sternbach, Construction Subdivision, Room 404, Bldg. 5
J. E. Cassidy, Office of General Services, Design and Construction

Enclosed is a copy of a test well report prepared by Vance Bryant, Senior Engineering Geologist, describing work done on the subject project.

Your attention is directed to Page 2 of the report. The pump requirements are being re-studied by Mr. Cassidy.

Please contact this Bureau if you have questions regarding this report.

LHM:EJL:MR
Attachment

NYSDOT
Library
50 Wolf Road, POD 34
Albany, New York 12232

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
SOIL MECHANICS BUREAU

TEST WELL REPORT
FOR

INTERSTATE ROUTE 502, MOFFITT RD. TO STRATTON RD.

NORTHBOUND AND SOUTHBOUND
REST AREAS

By

Vance Bryant
Senior Engineering Geologist

April 1974

ABSTRACT

Two test wells were constructed under Contract FILD 73-13, one at each of the Northbound and Southbound Rest Areas between Moffitt Road and Stratton Road on the Northway. The work was completed in March 1974.

Drilling and Test Data as obtained from samples, as well as direct observations and measurements, is included in the respective Appendix for each well.

Pump requirements are to be reviewed due to the lack of similarity of well characteristics of the pre-existing (1967) wells and the new wells at each site. Final recommendations will be forthcoming from the Office of General Services.

TABLE OF CONTENTS

	PAGE
TEXT OF REPORT.....	1 & 2
LOCATION PLANS.....	3 & 4
LIST OF APPENDICES.....	5
APPENDIX A - NORTHBOUND WELL NO. 2.....	A1-6
APPENDIX B - SOUTHBOUND WELL NO, 2.....	B1-6

MEMORANDUM
DEPARTMENT OF TRANSPORTATION

DATE April 8, 1974

SUBJECT F.I.L.D 73-13
INTERSTATE ROUTE 502, MOFFITT RD. TO STRATTON RD.
CLINTON COUNTY, P.I.N. 7720.15-311

FROM Vance Bryant, Senior Engineering Geologist

TO W. P. Moody, Associate Soils Engineer

During February and March of 1974 two new test wells were drilled, one at each of the Northbound and Southbound rest area sites on the subject project. Two existing wells had been completed under a 1967 contract but had not been put in use. The two new wells were to satisfy the requirement for a dual water source at each interstate rest area. Please note that the actual well locations are different than the proposed locations shown on the contract plans. The actual station, offset and elevation are shown on the well detail sheet in the respective appendix for each well.

Grouting of the permanent casings into rock, performed under an order on contract, was accomplished during the week of February 25th, in addition, the Northbound well (NB No. 2) was drilled to a depth of 130(±) feet during the same week. A yield of 10-12 G.P.M. was estimated by the driller. While drilling was progressed on the Southbound well (SB No. 2) the Northbound well was tested with a submersible pump. It was determined that less than 10 G.P.M. would be obtained from NB well No. 2. Meanwhile the Southbound well was essentially dry at 160 feet.

The writer recommended that both wells be continued to a depth of at least 200 feet. After some negotiations between the Contractor and Sub-Contractor concerning the Contractural Agreement, which had called for a lump sum bid rather than a unit price bid for each well construction item, drilling continued at the Southbound location. Within the next thirty feet, specifically 169-180 feet, a large quantity of water was obtained. Subsequent pump testing established a yield in excess of 120 G.P.M. The driller then set-up for a second time on NB No. 2 and continued drilling from 130 to 200 feet. The original yield of 86 G.P.M.was tripled, the well being tested at 25 G.P.M.

During the week of March 11, 1974 the two wells were

disinfected, tested and sampled for quality. The results of the pump and quality tests are included as part of this report, under the respective appendix for each well, in addition to a log of each well and other pertinent details. The pump tests reveal that the individual well characteristics at each of the Northbound and Southbound sites are not similar. The depth, drawdown and yield of the wells are such that each well requires separate study with regard to location and capacity of the pump to be placed in it. A quick study of the pumps that had already been ordered revealed that some were not compatible with the characteristics of the wells. The writer, with the approval of Mr. LaPierre (E.I.C.), contacted Mr. J. Cassidy of the Office of General Services whose office approved the original pumps and Mr. M. Hodge, Regional Construction Engineer for Region 7. It was agreed that Mr. Cassidy's office would re-study the well characteristics and pump requirements. Upon completion of the study, which will attempt to utilize as many of the pumps as originally approved, Mr. Cassidy will transmit final recommendations to the Region regarding any pump changes that are necessary.

FED. RD REG NO		FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
1	[illegible]	I-87-4(40)	7	38

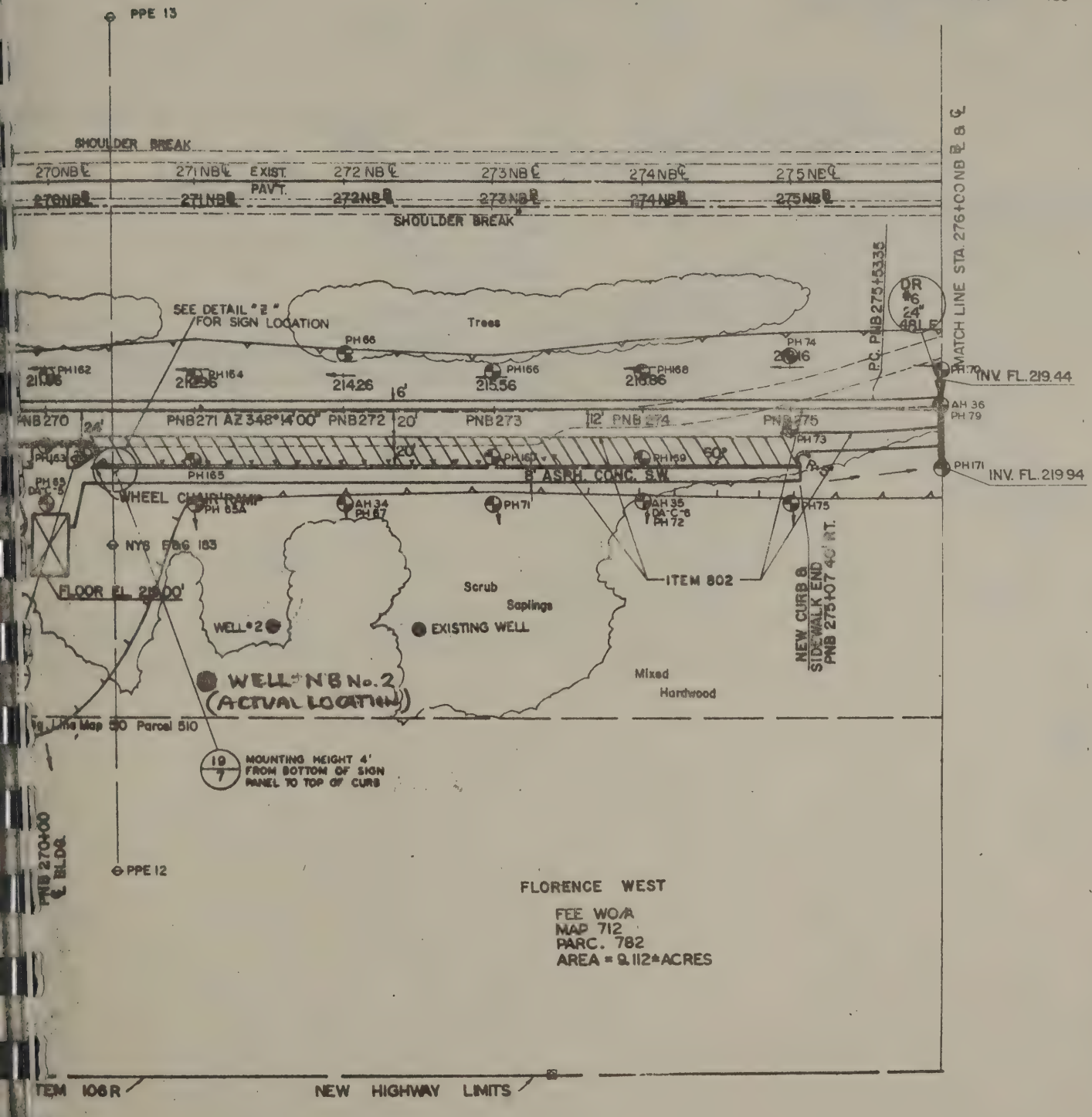
INTERSTATE RTE 502, SECT 7C-11 & 7C-12

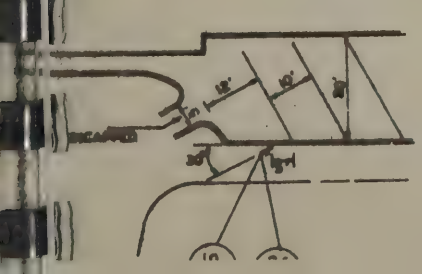
(MOFFITT ROAD-STRATTON ROAD) SH 60-15

CLINTON COUNTY (COMFORT STATIONS)

PLAN SCALE IN FEET

0 50 100 150



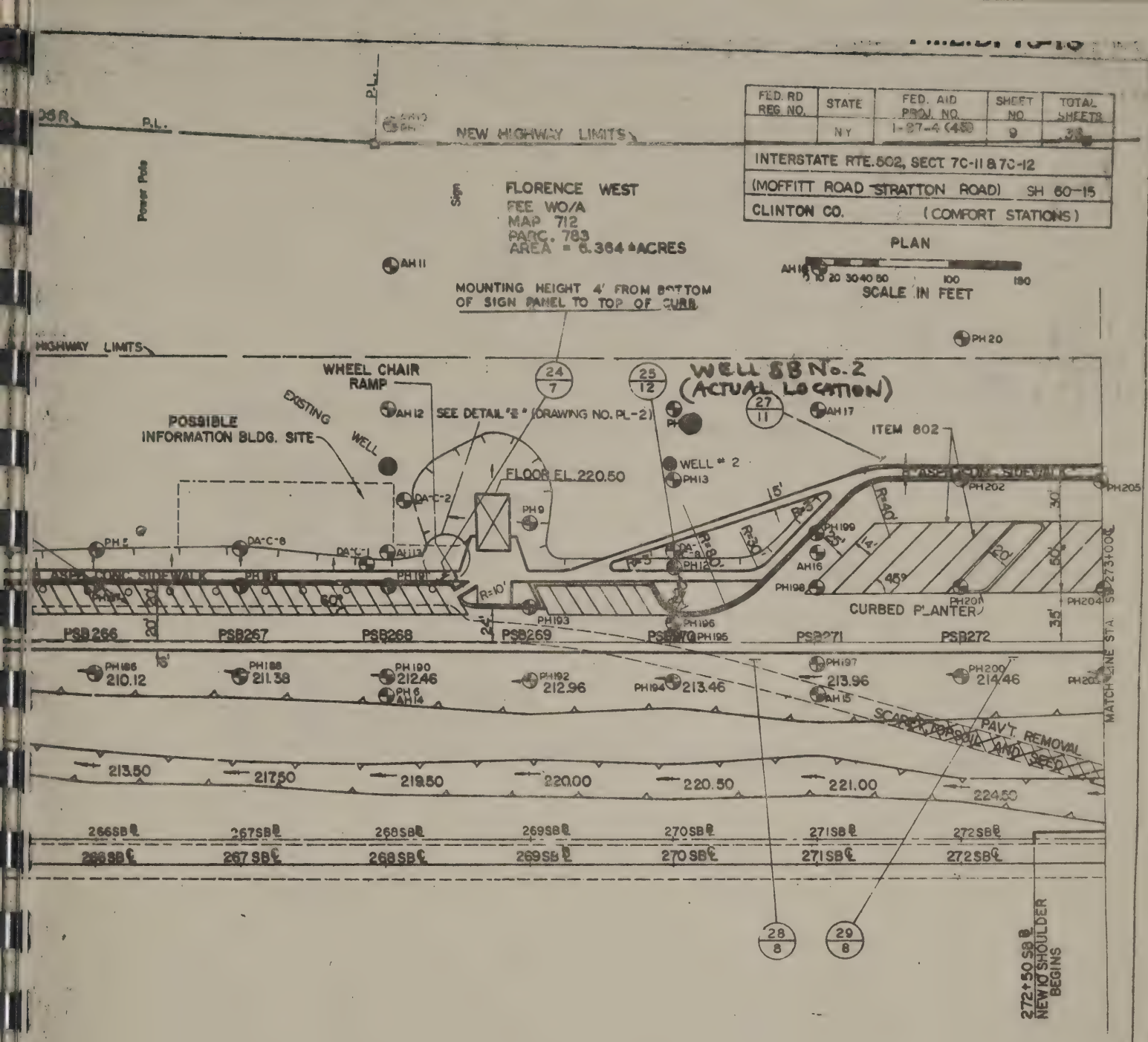


FED. RD REG. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
	NY	I-87-4 (45)	9	38

INTERSTATE RTE. 502, SECT. 7C-11 & 7C-12

(MOFFITT ROAD - STRATTON ROAD) SH 60-15

CLINTON CO. (COMFORT STATIONS)



LIST OF APPENDICES

	PAGE
APPENDIX A - NORTHBOUND REST AREA-TEST WELL NO. 2	
1) WELL DATA	A1
2) WELL LOG & DETAILS	A2
3) PUMP TEST DATA	A3
4) BACTERIOLOGICAL, CHEMICAL & PHYSICAL DATA	A4-6
APPENDIX B - SOUTHBOUND REST AREA-TEST WELL NO. 2	
1) WELL DATA	B1
2) WELL LOG & DETAILS	B2
3) PUMP TEST DATA	B3
4) BACTERIOLOGICAL, CHEMICAL & PHYSICAL DATA	B4-6

APPENDIX A

NORTHBOUND REST AREA-TEST WELL NO. 2

INTERSTATE ROUTE 502, MOFFITT RD. TO STRATTON RD.
NORTHBOUND REST AREA-TEST WELL NUMBER 2

LOCATION

Centerline Station: PNB 271+03
Offset: 180 Feet Right
Original Ground Elevation (O.G.): 215.2

DRILLING DATA

Contractor: W. A. Bushey
Sub-Contractor: Ormsby's Well Drilling Company
Driller: Harold Ormsby
Date Started: 2/27/74
Date Completed: 3/6/74

WELL DATA

Source of Water: Dolostone Bedrock
Overburden: Topsoil and Boulders
Static Level During Drilling: 8.5 Feet
Depth of Well: 198.5 Feet

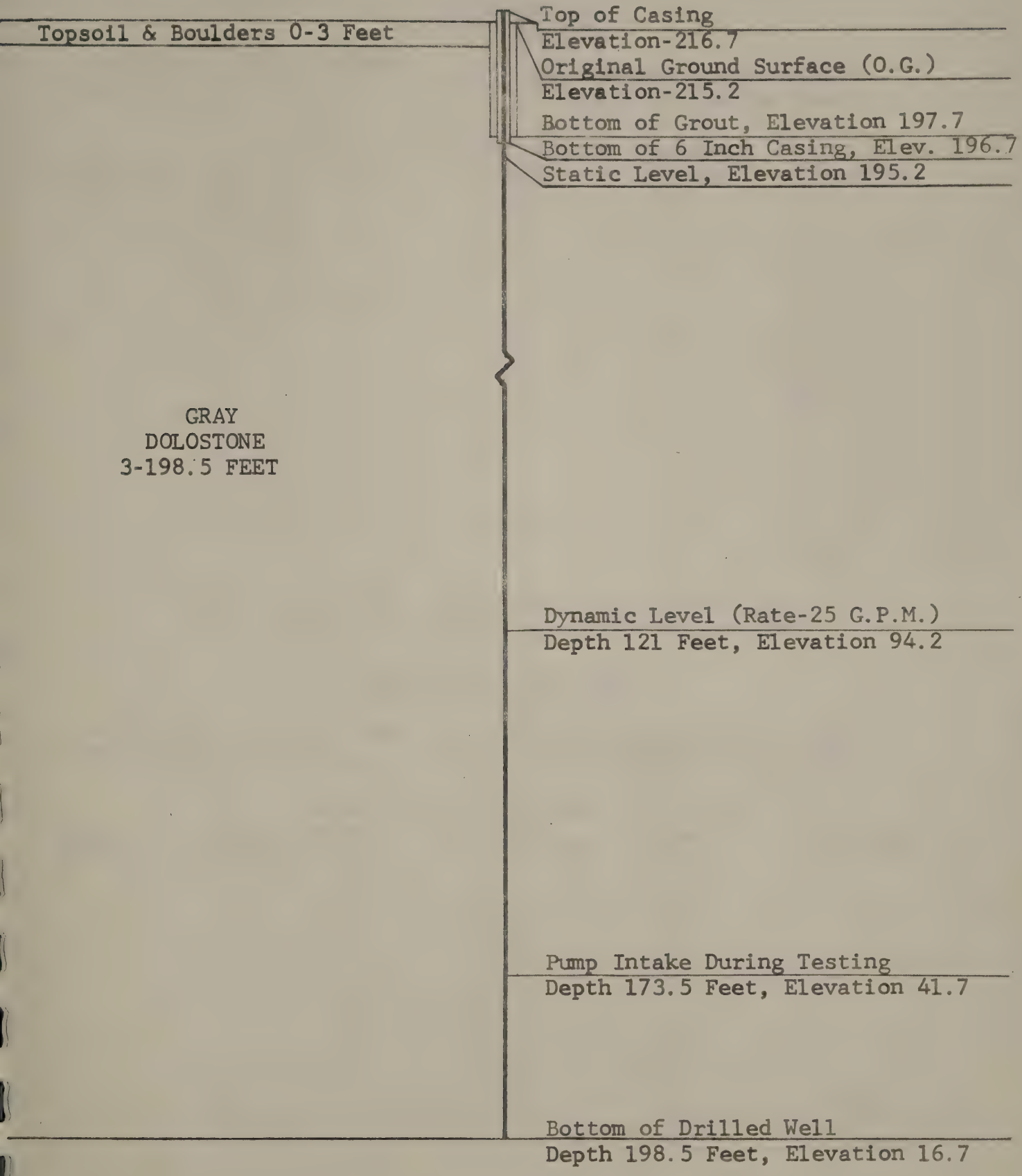
TEST DATA

Date Started: 3/12/74
Date Completed: 3/13/74
Location of Pump Intake: 173.5 Feet
Static Level Prior to Testing: 20.0 & 17.5 Feet
Yield: 25 G.P.M.
Drawdown: 103.5 Feet
Specific Capacity: .024 G.P.M. Per Foot of Drawdown

PUMP DATA

Make & Type: Peerless 1 HP Submersible

INTERSTATE ROUTE 502, MOFFITT RD. TO STRATTON RD.
NORTHBOUND REST AREA-TEST WELL NUMBER 2



INTERSTATE ROUTE 502, MOFFITT RD. TO STRATTON RD.
NORTHBOUND REST AREA-TEST WELL NUMBER 2

STEP DRAWDOWN TEST

Static Level Prior to Test - 20.0 Feet Below Original Ground
Pump Intake During Test - 173.5 Feet Below Original Ground

Date	Time	Rate (GPM)	Dynamic Level (Feet)	Drawdown (Feet)	Comments
3/12/74	3:30 PM	2	-	0	
	3:45 PM	2	20.5	0.5	Stabilized Drawdown
	3:45 PM	5	-	-	Increased Rate
	4:15 PM	5	27.5	7.5	Stabilized Drawdown
	4:15 PM	8.5	-	-	Increased Rate
	4:45 PM	8.5	32.0	12.0	Stabilized Drawdown
	4:45 PM	12	-	-	Increased Rate
	5:30 PM	12	33.5	13.5	Stabilized Drawdown
	5:30 PM	16	-	-	Increased Rate
	6:00 PM	16	44.5	24.5	Stabilized Drawdown
	6:00 PM	20	-	-	Increased Rate
	6:30 PM	20	67.5	47.5	Stabilized Drawdown
	6:30 PM	25	-	-	Increased Rate
	7:00 PM	25	98.5+	78.5+	Level Not Stable Stopped Pumping

7:15 PM-8:15 PM - Added Chlorine, Recirculated 1 Hour
8:15 PM-9:00 AM - Disinfected Well Overnight

CONTINUOUS YIELD TEST

Static Level Prior to Test - 17.5 Feet Below Original Ground
Pump Intake During Test - 173.5 Feet Below Original Ground

Date	Time	Rate (GPM)	Dynamic Level (Feet)	Drawdown (Feet)	Comments
3/13/74	9:00 AM	25	-	0	
		25	87.5	70.0	
		25	92.5	75.0	
		25	95.5	78.0	
	10:45 AM	25	102.0	84.5	
		25	107.5	90.0	
		25	112.5	95.0	
		25	115.5	98.0	
		25	119.5	102.0	
	5:00 PM	25	121.0	103.5	Water
	5:15 PM	25	121.0	103.5	Level
	5:30 PM	25	121.0	103.5	Stable

NEW YORK STATE DEPARTMENT OF HEALTH
DIVISION OF LABORATORIES AND RESEARCH
ENVIRONMENTAL HEALTH CENTER

RESULTS OF EXAMINATION
(PAGE 1 OF 1)

REPORTING LAB: 01 CENTRAL AVE. LAB
LAB ACCESSION NO: 01882 YR/MO/DAY/HR SAMPLE REC'D: 74/03/14/08
PROGRAM: 120 RESIDENTIAL AND RECREATIONAL SANITATION
STATION (SOURCE) NO:
DRAINAGE BASIN: NY GAZETTEER NO: 0952 COUNTY: CLINTON
COORDINATES: DEG ' "N. DEG ' "W
COMMON NAME INCL SUBW'SHED: T BEEKMANTOWN. INT NY 87

EXACT SAMPLING POINT: NORTH REST AREA
TYPE OF SAMPLE: 12 WATER. DRILLED WELL
MO/DAY/HR OF SAMPLING: FROM 00/00 TO 03/13/15
REPORT SENT TO: CO (0) RO (0) LPHE (2) LHO (0) FED (0)

	PARAMETER	UNIT	RESULT	NOTATION
026800	STAND PLATE COUNT COL/ML.		1.	LT
027000	COLIFORM BACT MF COL/100ML		1.	LT

DATE COMPLETED: 3/18/74

RECEIVED
MAR 19 1974
CLINTON COUNTY
HEALTH DEPARTMENT

Rec'd 3-20-74 lcf

DIRECTOR OF ENVIRONMENTAL SANITATION
CLINTON COUNTY HEALTH DEPARTMENT
P.O. BOX 846
PLATTSBURGH NEW YORK 12901

SUBMITTED BY: HUNTER

NEW YORK STATE DEPARTMENT OF HEALTH
DIVISION OF LABORATORIES AND RESEARCH
ENVIRONMENTAL HEALTH CENTER

RESULTS OF EXAMINATION
(PAGE 1 OF 2)

REPORTING LAB: 10 GRIFFIN LAB
LAB ACCESSION NO: 01086 YR/MO/DAY/HR SAMPLE REC'D: 74/03/18/11
PROGRAM: 820 NYS DEPT. OF TRANSP.
STATION (SOURCE) NO:
DRAINAGE BASIN: NY GAZETTEER NO: 0952 COUNTY: CLINTON
COORDINATES: DEG ' "N, DEG ' "W
COMMON NAME INCL SUBW'SHED: REST AREA RT 87 T BEEKMANTOWN

EXACT SAMPLING POINT: FILD 73-13 NORTHBOUND 1 INCH PIPE
TYPE OF SAMPLE: 16 PRIVATE SUPPLY, MISCELL.
MO/DAY/HR OF SAMPLING: FROM 00/00 TO 03/13/16
REPORT SENT TO: CO (1) RO (0) LPHE (2) LHO (0) FED (0)

	PARAMETER	UNIT	RESULT	NOTATION
000100	COLOR (APPARENT)		0.	
000200	TURBIDITY, J.T.U.		2.0	
000300	ODOR, HOT		1.0044	
000501	NITROGEN,AMMONIA AS N	MG/L	0.02	
000709	NITROGEN,NITRITE AS N	MCG/L	1.	LT
000801	NITROGEN,NITRATE AS N	MG/L	0.1	LT
001001	CHLORIDES	MG/L	10.	
001101	HARDNESS, TOTAL AS CACO3	MG/L	443.	
001501	ALKALINITY, MTH OR AS CACO3	MG/L	321.	
001900	PH (LABORATORY)		7.4	
006401	NITROGEN,KJELDAHL,INCL. AMM	MG/L	0.12	
006501	CHEMICAL OXYGEN DEMAND	MG/L	2.	LT
010001	IRON	MG/L	0.09	

DATE COMPLETED: 4/08/74

DEPUTY CHIEF ENGINEER,TECHNICAL SERVICES
NYS DEPT.OF TRANSPORTATION, BLDG. 7A
1220 WASHINGTON AVENUE
ALBANY, N.Y. 12226

NEW YORK STATE DEPARTMENT OF HEALTH
DIVISION OF LABORATORIES AND RESEARCH
ENVIRONMENTAL HEALTH CENTER

RESULTS OF EXAMINATION
(PAGE 2 OF 2)

REPORTING LAB: 10 GRIFFIN LAB
LAB ACCESSION NO: 01086 YR/MO/DAY/HR SAMPLE REC'D: 74/03/18/11
PROGRAM: 820 NYS DEPT. OF TRANSP.
STATION (SOURCE) NO:
DRAINAGE BASIN: NY GAZETTEER NO: 0952 COUNTY: CLINTON
COORDINATES: DEG ' "N, DEG ' "W
COMMON NAME INCL SUBW'SHED: REST AREA RT 87 T BEEKMANTOWN

EXACT SAMPLING POINT: FILD 73-13 NORTHBOUND 1 INCH PIPE
TYPE OF SAMPLE: 16 PRIVATE SUPPLY, MISCELL.
MO/DAY/HR OF SAMPLING: FROM 00/00 TO 03/13/16
REPORT SENT TO: CO (1) RO (0) LPHE (2) LHO (0) FED (0)

PARAMETER		UNIT	RESULT	NOTATION
010201	MANGANESE	MG/L	0.06	
010701	SODIUM	MG/L	26.	
100300	ODOR, COLD		1.0044	
002001	TOTAL DISSOLVED SOLIDS	MG/L	572.	

DATE COMPLETED: 4/08/74

DEPUTY CHIEF ENGINEER, TECHNICAL SERVICES
NYS DEPT. OF TRANSPORTATION, BLDG. 7A
1220 WASHINGTON AVENUE
ALBANY, N.Y. 12226

APPENDIX B

SOUTHBOUND REST AREA-TEST WELL NO. 2

INTERSTATE ROUTE 502, MOFFITT RD. TO STRATTON RD.
SOUTHBOUND REST AREA-TEST WELL NUMBER 2

LOCATION

Centerline Station: PSB 270+17
Offset: 161 Feet Left
Original Ground Elevation (O.G.): 218.6

DRILLING DATA

Contractor: W. A. Bushey
Sub-Contractor: Ormsby's Well Drilling Company
Driller: Harold Ormsby
Date Started: 3/2/74
Date Completed: 3/5/74

WELL DATA

Source of Water: Dolostone Bedrock
Overburden: Topsoil and Glacial Till
Static Level During Drilling: 30 Feet
Depth of Well: 188.5 Feet

TEST DATA

Date Started: 3/12/74
Date Completed: 3/14/74
Location of Pump Intake: 153.5 Feet
Static Level Prior to Testing: 25 Feet
Yield: 120 G.P.M.
Drawdown: 83.5 Feet
Specific Capacity: 1.44 G.P.M Per Foot of Drawdown

PUMP DATA

Make & Type: 5 HP Turbine

INTERSTATE ROUTE 502, MOFFITT RD. TO STRATTON RD.
SOUTHBOUND REST AREA-TEST WELL NUMBER 2

WELL LOG

WELL DETAILS

Top of Casing
Elevation-220.1

Topsoil & Glacial Till
0-8.5 Feet

Original Ground Surface (O.G.)
Elevation-218.6

Bottom of Grout, Elevation 195.1

Bottom of 6 Inch Casing, Elev. 194.1

Static Level, Elevation 193.6

Dynamic Level (Rate-17G.P.M.)
Depth 34.5 Feet, Elevation 184.1

GRAY
DOLOSTONE
8.5 to 188.5 FEET

Dynamic Level (Rate-50G.P.M.)
Depth 70.0 Feet, Elevation 148.6

Pump Intake During Testing
Depth 153.5 Feet, Elevation 65.1

Water Bearing Zone
167.5 to 178.5 Feet, Elev. 51.1 to 40.1

Bottom of Drilled Well
Depth 188.5 Feet, Elevation 30.1

INTERSTATE ROUTE 502, MOFFITT RD. TO STRATTON RD.
SOUTHBOUND REST AREA-TEST WELL NUMBER 2

STEP DRAWDOWN TEST

Static Level Prior to Test - 25.0 Feet Below Original Ground
Pump Intake During Test - 153.5 Feet Below Original Ground

Date	Time	Rate (GPM)	Dynamic Level (Feet)	Drawdown (Inches)	Comments
3/12/74	11:10 AM	17	-	0	
	11:30 AM	17	34.5	9.5	Stabilized Drawdown
	11:30 AM	50	-	-	Increased Rate
	1:00 PM	50	70.0	45.0	Stabilized Drawdown
	1:00 PM	120	-	-	Increased Rate
	1:15 PM	120	108.5	83.5	Stabilized Drawdown
	1:15 PM	150	-	-	Increased Rate
	1:19 PM	150	153.5	128.5	Water Level to Pump Intake-Water Muddy
	1:20 PM	60	-	-	Water Clearing
	2:30 PM	60	-	-	Water Clear

2:30 PM-3:30 PM - Added Chlorine, Recirculated 1 Hour
3:30 PM-9:00 AM - Disinfected Well Overnight

CONTINUOUS YIELD TEST

Static Level Prior to Test - ? Feet Below Original Ground
Pump Intake During Test - 153.5 Feet Below Original Ground

Date	Time	Rate (GPM)	Dynamic Level (Feet)	Drawdown (Feet)	Comments
3/13/74	9:00 AM	60	-	0	
3/14/74	1:30 AM	60	?	?	See Note

Note: Water Level Indicator Not Working - Water Levels Not Available
For Water Levels See Prior Step Drawdown Test.

NEW YORK STATE DEPARTMENT OF HEALTH
DIVISION OF LABORATORIES AND RESEARCH
ENVIRONMENTAL HEALTH CENTER

RESULTS OF EXAMINATION
(PAGE 1 OF 1)

REPORTING LAB: 01 CENTRAL AVE. LAB
LAB ACCESSION NO: 01883 YR/MO/DAY/HR SAMPLE REC'D: 74/03/14/08
PROGRAM: 120 RESIDENTIAL AND RECREATIONAL SANITATION
STATION (SOURCE) NO:
DRAINAGE BASIN: NY GAZETTEER NO: 0952 COUNTY: CLINTON
COORDINATES: DEG ' "N. DEG ' "W
COMMON NAME INCL SUBW'SHED: T BEEKMANTOWN, INT NY 87

EXACT SAMPLING POINT: SOUTH REST AREA
TYPE OF SAMPLE: 12 WATER, DRILLED WELL
D/DAY/HR OF SAMPLING: FROM 00/00 TO 03/13/15
REPORT SENT TO: CO (0) RO (0) LPHE (2) LHO (0) FED (0)

	PARAMETER	UNIT	RESULT	NOTATION
026800	STAND PLATE COUNT COL/ML.		2.	
027000	COLIFORM BACT MF COL/100ML		1.	LT

DATE COMPLETED: 3/18/74

DIRECTOR OF ENVIRONMENTAL SANITATION
CLINTON COUNTY HEALTH DEPARTMENT
P.O. BOX 846
PLATTSBURGH NEW YORK 12901

SUBMITTED BY: HUNTER

NEW YORK STATE DEPARTMENT OF HEALTH
DIVISION OF LABORATORIES AND RESEARCH
ENVIRONMENTAL HEALTH CENTER

RESULTS OF EXAMINATION
(PAGE 1 OF 2)

REPORTING LAB: 10 GRIFFIN LAB
LAB ACCESSION NO: 01087 YR/MO/DAY/HR SAMPLE REC'D: 74/03/18/11
PROGRAM: 820 NYS DEPT. OF TRANSP.
STATION (SOURCE) NO:
DRAINAGE BASIN: NY GAZETTEER NO: 0952 COUNTY: CLINTON
COORDINATES: DEG ' "N, DEG ' "W
COMMON NAME INCL SUBW'SHED: REST AREA RT 87 T BEEKMANTOWN

EXACT SAMPLING POINT: FILD 73-13 SOUTHBOUND
TYPE OF SAMPLE: 16 PRIVATE SUPPLY, MISCELL.
MO/DAY/HR OF SAMPLING: FROM 00/00 TO 03/13/16
REPORT SENT TO: CO (1) RO (0) LPHE (2) LHO (0) FED (0)

PARAMETER		UNIT	RESULT	NOTATION
000100	COLOR (APPARENT)		0.	
000200	TURBIDITY, J.T.U.		0.37	
000300	ODOR, HOT		1.0044	
000501	NITROGEN,AMMONIA AS N	MG/L	0.09	
000709	NITROGEN,NITRITE AS N	MCG/L	1.	LT
000801	NITROGEN,NITRATE AS N	MG/L	0.1	LT
001001	CHLORIDES	MG/L	34.	
001101	HARDNESS, TOTAL AS CACO3	MG/L	147.	
001501	ALKALINITY, MTH OR AS CACO3	MG/L	275.	
001900	PH (LABORATORY)		7.8	
006401	NITROGEN,KJELDAHL,INCL. AMM	MG/L	0.14	
006501	CHEMICAL OXYGEN DEMAND	MG/L	9.	
010001	IRON	MG/L	0.11	

DATE COMPLETED: 4/08/74

DEPUTY CHIEF ENGINEER,TECHNICAL SERVICES
NYS DEPT.OF TRANSPORTATION, BLDG. 7A
1220 WASHINGTON AVENUE
ALBANY, N.Y. 12226

NEW YORK STATE DEPARTMENT OF HEALTH
DIVISION OF LABORATORIES AND RESEARCH
ENVIRONMENTAL HEALTH CENTER

DEPT OF TRANSPORTATION
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DEPUTY CHIEF ENGINEER (RESEARCH)

RESULTS OF EXAMINATION
(PAGE 2 OF 2)

REPORTING LAB: 10 GRIFFIN LAB
LAB ACCESSION NO: 01087 YR/MO/DAY/HR SAMPLE REC'D: 74/03/18/11
PROGRAM: 820 NYS DEPT. OF TRANSP.
STATION (SOURCE) NO:
DRAINAGE BASIN: NY GAZETTEER NO: 0952 COUNTY: CLINTON
COORDINATES: DEG ' "N, DEG ' "W
COMMON NAME INCL SUBW'SHED: REST AREA RT 87 T BEEKMANTOWN

EXACT SAMPLING POINT: FILD 73-13 SOUTHBOUND
TYPE OF SAMPLE: 16 PRIVATE SUPPLY, MISCELL.
MO/DAY/HR OF SAMPLING: FROM 00/00 TO 03/13/16
REPORT SENT TO: CO (1) RO (0) LPHE (2) LHO (0) FED (0)

	PARAMETER	UNIT	RESULT	NOTATION
010201	MANGANESE	MG/L	0.02	
010701	SODIUM	MG/L	150.	
100300	ODOR, COLD		1.0044	
002001	TOTAL DISSOLVED SOLIDS	MG/L	400.	

DATE COMPLETED: 4/08/74

DEPUTY CHIEF ENGINEER, TECHNICAL SERVICES
NYS DEPT. OF TRANSPORTATION, BLDG. 7A
1220 WASHINGTON AVENUE
ALBANY, N.Y. 12226

01044
LRI